

## Product datasheet for **SC122910**

### Neuroglobin (NGB) (NM\_021257) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Neuroglobin (NGB) (NM_021257) Human Untagged Clone
Tag:	Tag Free
Symbol:	Neuroglobin
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_021257 edited  
 CCGAGGAGATGGCGCGGCACGTGCGGTGACGGCACCCGAGCCCTGAGGGTCCCAGCCCCG  
 CGCTCCGCGTCCCCGGGACAGCATGGAGCGCCCGAGCCCGAGCTGATCCGGCAGAGCTG  
 GCGGGCAGTGAGCCGACGCCCTGGAGCACGGCACCGTCTGTGGCCAGGCTGTTTGC  
 CCTGGAGCCTGACCTGCTGCCCTCTTCCAGTACAACCTGCCGCCAGTTCTCCAGCCCAGA  
 GGACTGTCTCTCCTCGCTGAGTTCCTGGACCACATCAGGAAGGTGATGCTCGTGATTGA  
 TGCTGAGTGACCAATGTGGAAGACCTGTCTCACTGGAGGAGTACCTTGCCAGCTGGG  
 CAGGAAGCACCGGCAGTGGGTGTGAAGCTCAGCTCCTTCTCGACAGTGGGTGAGTCTCT  
 GCTCTACATGCTGGAGAAGTGTCTGGGCCCTGCCTTACACCCAGCCACACGGGCTGCCTG  
 GAGCCAACCTACGGGGCCGTAGTGACGGCCATGAGTCGAGGCTGGGATGGCGAGTAAGA  
 GGGCAGCCCGCCCGGACGCCCCATCCATCTGTGTCTGTCTGTTGGCCTGTATCTGTTGT  
 AGCCCAGGCTCCCAAGCTTCCCTGCATCTTGGTCTTGTCCCCTTGGCCACACTGGAGA  
 GGTGATGGGGCAGGGCTGGGTCTCAGTATCCTAGAGTCCAGCTGCAGAAGGAGTGGCTTT  
 TCCTCCAGGAAGGGGCTTCTGGGTGTCCCCTCATCCCCAGTAGCCTCTTTCTTGGCTTC  
 TTTTTACCTTTTTTGGCACTCCCTCTGACCCCGCATGAGTGTTTTGGTGGCAGAGGTGG  
 GATGAGCTGAAAAGGTATGGAGGTGGGAGAGGATGGGGCTTCTGTCTGTCTGCTGTTCT  
 TCAGGTGAGTGCAGGCCAAGCGGGGTGAGATGGCTGAGCTTCCAGCGCCTTCTGTCTCT  
 GCCTGCCAGTCCCTTCACTGCTTCTGCCCCAAGATGGCTTGGCTTTTCAAAATAAAG  
 AGAAAGAGCAGCTTAGCCTTCTTGGTGAATCCCAGGCAGTGGGAGCAGAATCAGAACT  
 GCCAGGGAAGGGAAGGGGACCTGGGTCTCAATGGGTCTCATTTGAGTCTCGCGGGCTGT  
 GCAGATGCCCTGACAGAGTCGGTTTCTTTGGCGGCATTCCCTTCCCTCATTACGACT  
 TCTGCTGGAACTCCCTGACTATTCCGCTGCTGCAGGAACCCAGCTAGCTGGCCAGGTGG  
 GGAGGGCTGGGGACCGCCAGGAAGGAGGGGTGACTTCATCCCAGAGAGACCCGAGTTC  
 CCCCAGCCCTTATCACCAACCCGCTCCTGCAGGAGTGAGTCTTACCTCCCTGGCCCTC  
 CTTTCTGGCTCAGCCTGCAGCGACTGTGAGGCCACAGCTCCTCAGATTCACTGCCCGCTG  
 TGTGCCAGTACTCAGGCAGCTGGAGAGAAGAGAAGGCAGCAGCAGAGGCCCCCGCCCTCA  
 CCCCAGCCATCTGCATTGTACCATTTGCTCTGTGCTGACTGTGGTCTATAAATTCATG  
 AGAAATAAACTGGTTCTGTGTGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  
 AA  
 AA

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_021257 unedited  
 NACGTTAAGATTTTGTAAATACGACTTACTATNAGGGCGCGCATTCCCGGGATCGCG  
 TCGCGNAGAGATGGCGCGGCACGTGCGGTGACGGCACCCGAGCCCTGAGGGTCCCAGCC  
 CCGCGTCCGCGTCCCCGGGACAGCATGGAGCGCCCGAGCCCGAGCTGATCCGGCAGAG  
 CTGGCGGGCAGTGAGCCGACGCCCTGGAGCACGGCACCGTCTGTGGCCAGGCTGTT  
 TGCCCTGGAGCCTGACCTGCTGCCCTCTTCCAGTACAACCTGCCGCCAGTTCTCCAGCCC  
 AGAGGACTGTCTCTCCTCGCTGAGTTCCTGGACCACATCAGGAAGGTGATGCTCGTGAT  
 TGATGCTGCAGTGACCAATGTGGAAGACCTGTCTCACTGGAGGAGTACCTTGCCAGCCT  
 GGGCAGGAAGCACCGGCAGTGGGTGTGAAGCTCAGCTCCTTCTCGACAGTGGGTGAGTC  
 TCTGCTTACATGCTGGAGAAGTGTCTGGGCCCTGCCTTACACCCAGCCACACGGGCTGC  
 CTGGAGCCAACCTACGGGGCCGTAGTGACGGCCATGAGTCGAGGCTGGGATGGCGAGTA  
 AGAGGGCAGCCCGCCCGGACGCCCCATCCATCTGTGTCTGTCTGTTGGCCTGTATCTGT  
 TGTAGCCCATGCTCCCAAGCTTCCCTGCATCTTGGTCTTGTCCCCTTGGCCACACTGG  
 AGAGGTGATGGGGCAGGGCTGGGTCTCAGTATCCTAGAGTCCAGCTGCAGAAGGAGTGGC  
 TTTTCTCCAGAAAGGGCTTCTGGGTGTCCCCTCATCCCCAGTAGCCTCTTTCTTGGCT  
 TTCTTTTACCTTTTTTGGCACTCCCTCTGACCCCGCATGAGTGTTTTGGTGGCAGAAG  
 TGGGATGAGC

**Restriction Sites:** Please inquire

**ACCN:** NM\_021257

**Insert Size:** 1711 bp

<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_021257.3</a> , <a href="#">NP_067080.1</a>
<b>RefSeq Size:</b>	1885 bp
<b>RefSeq ORF:</b>	456 bp
<b>Locus ID:</b>	58157
<b>UniProt ID:</b>	<a href="#">Q9NPG2</a>
<b>Cytogenetics:</b>	14q24.3
<b>Gene Summary:</b>	This gene encodes an oxygen-binding protein that is distantly related to members of the globin gene family. It is highly conserved among other vertebrates. It is expressed in the central and peripheral nervous system where it may be involved in increasing oxygen availability and providing protection under hypoxic/ischemic conditions. [provided by RefSeq, Jul 2008]